



PUBLIC HEALTH

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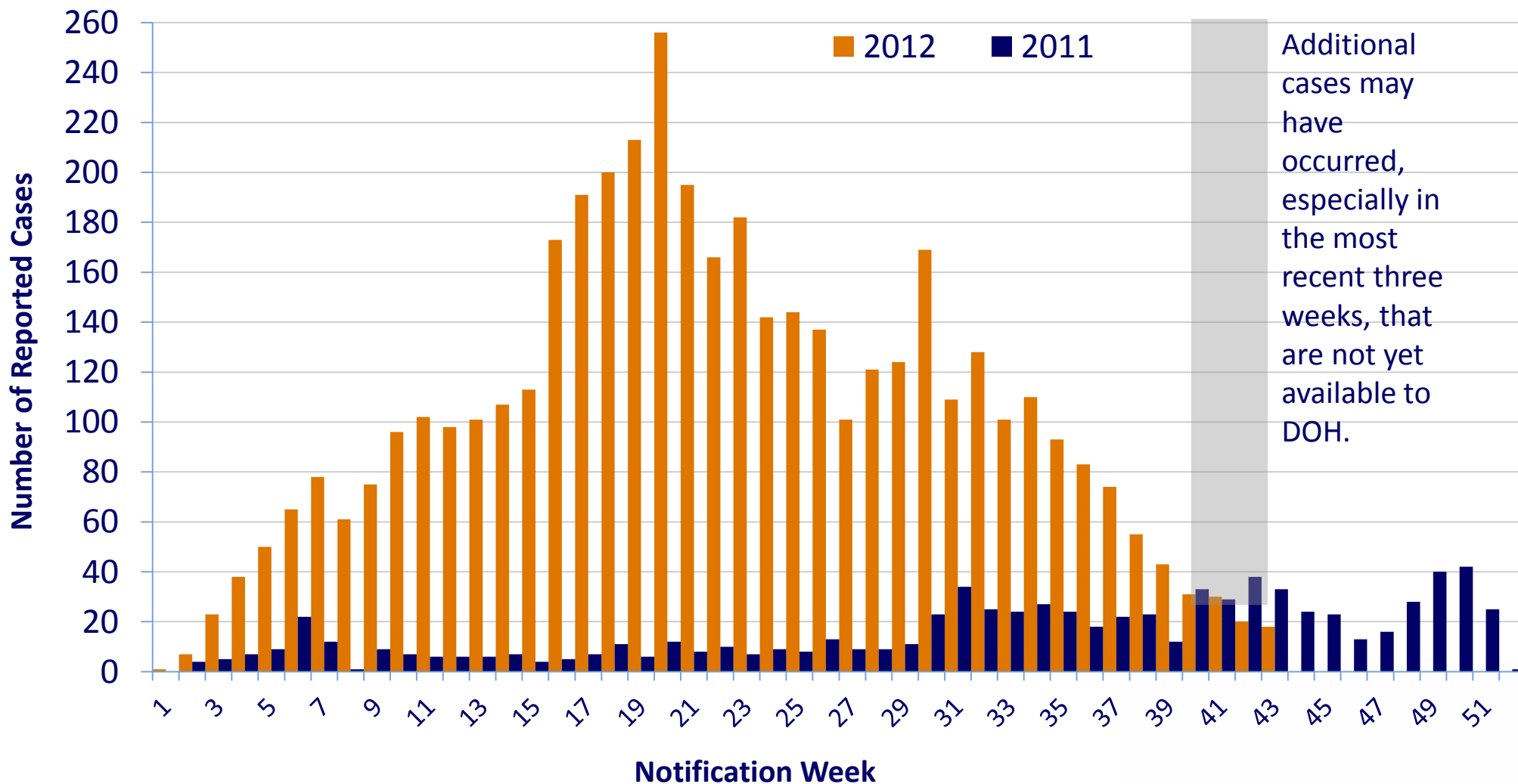
Pertussis Update

Washington State Board of Health
November 14, 2012

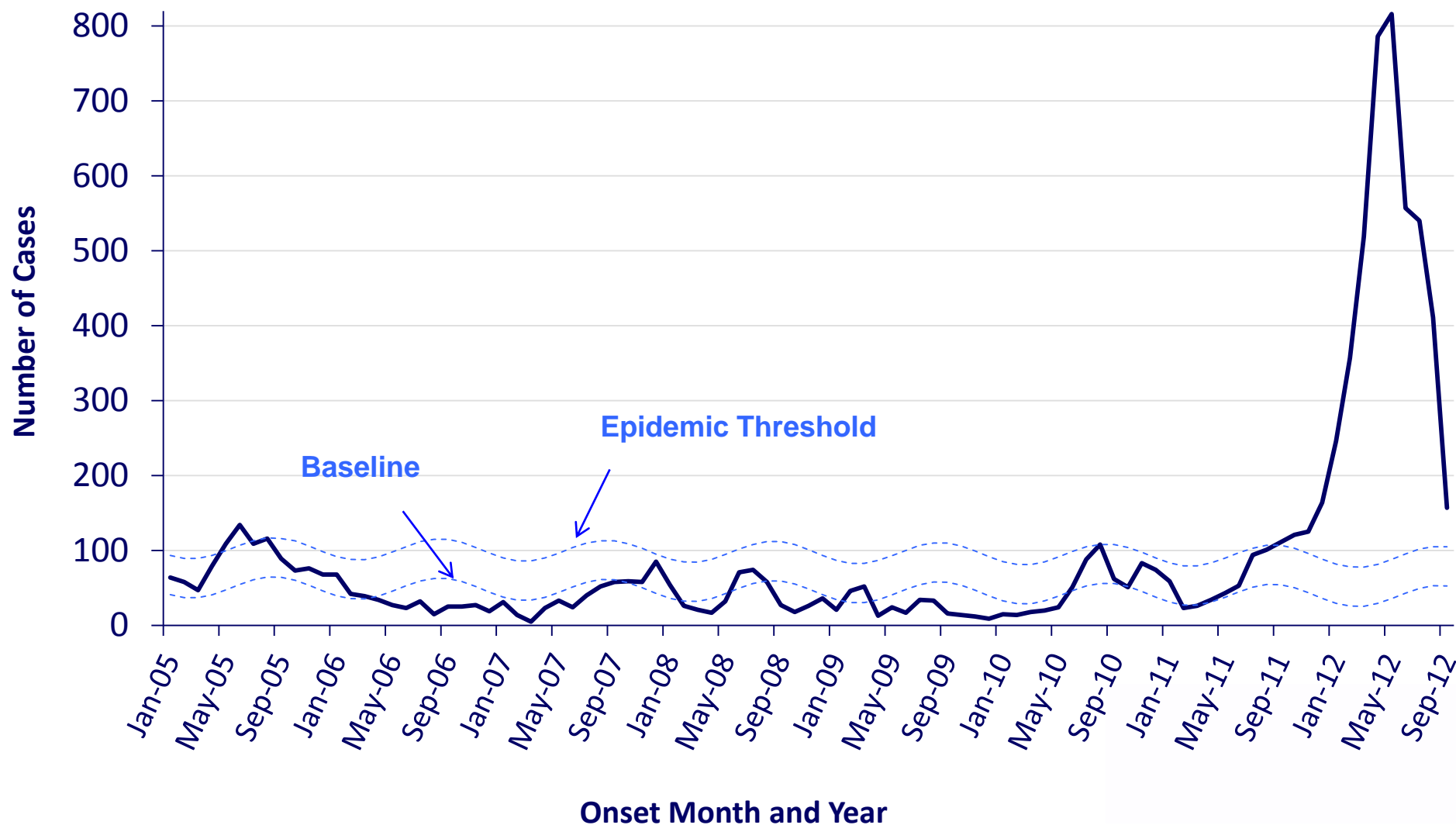
Chas DeBolt, RN, MPH
Senior Epidemiologist for Vaccine-Preventable Diseases

Pertussis Cases by Notification Week

2011 vs. 2012 YTD (week 43 – ended 10/27/12)



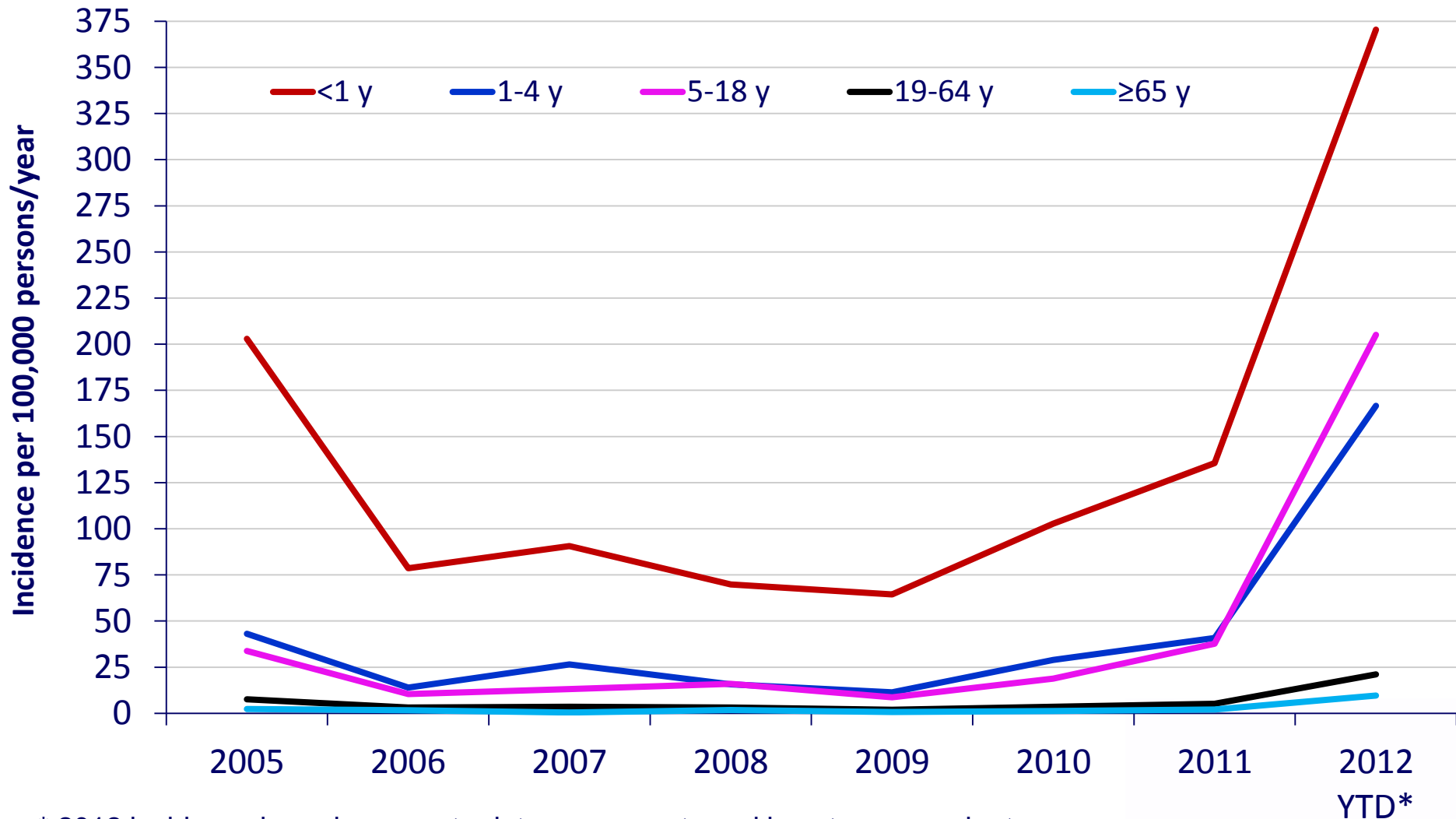
Pertussis Cases by Onset Month 2005–2012 YTD (through September)



Pertussis Reports by Case Classification 2007–2012 YTD (week 43)

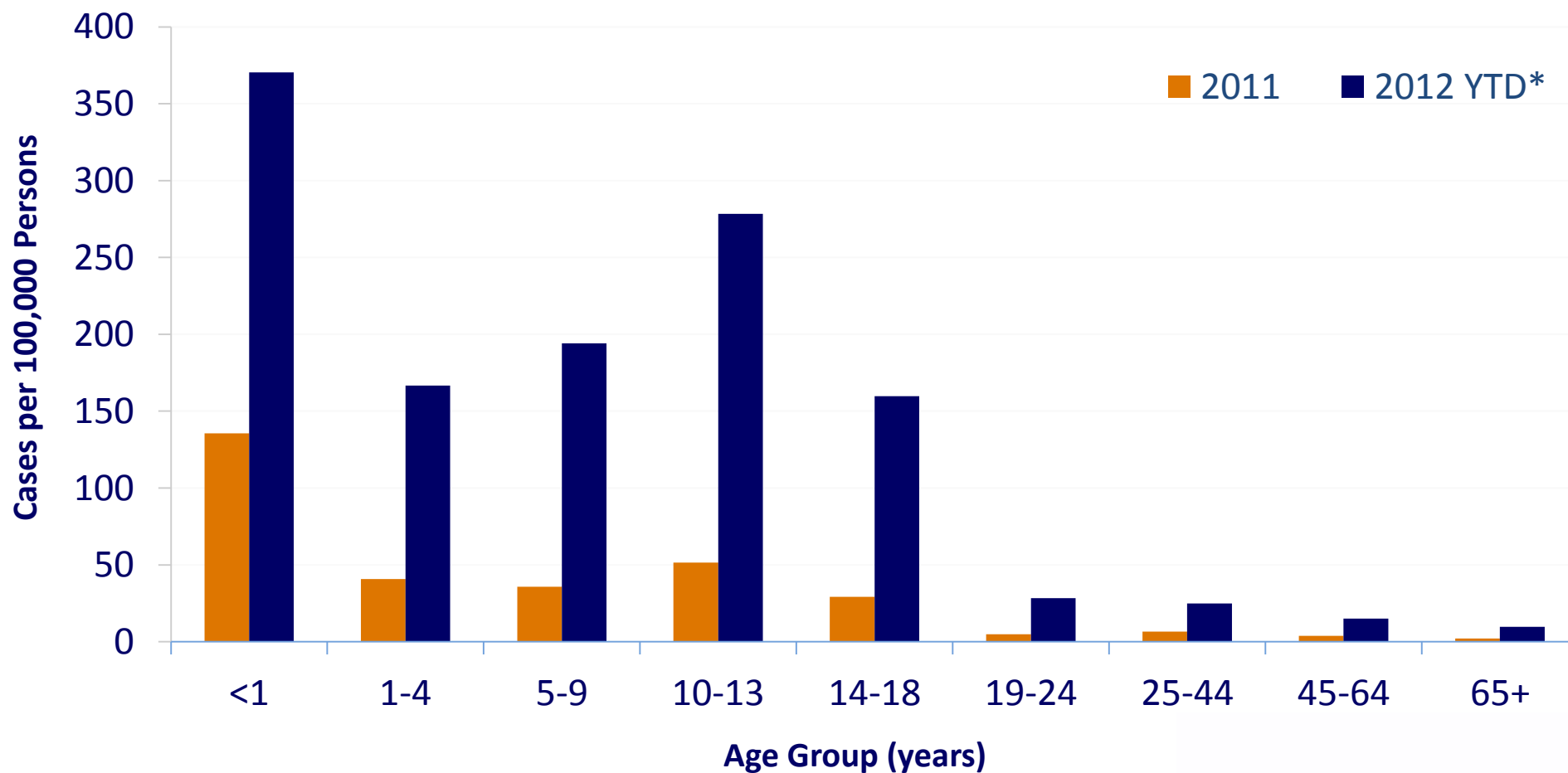
Onset Year	All Reports	Cases Reported to CDC (Confirmed & Probable)	PCR+ Suspect Cases	Total Cases if PCR+ Suspect Cases were Included
2007	510	482	13	495
2008	502	461	19	480
2009	342	291	18	309
2010	682	608	32	640
2011	1,080	965	68	1,023
2012 YTD	5,331	4,424	535	4,959

Pertussis Rates by Age Group 2005–2012 YTD (week 43)



* 2012 incidence based on year to date case counts and is not an annual rate.

2011–2012 Pertussis Incidence by Age Group (week 43)

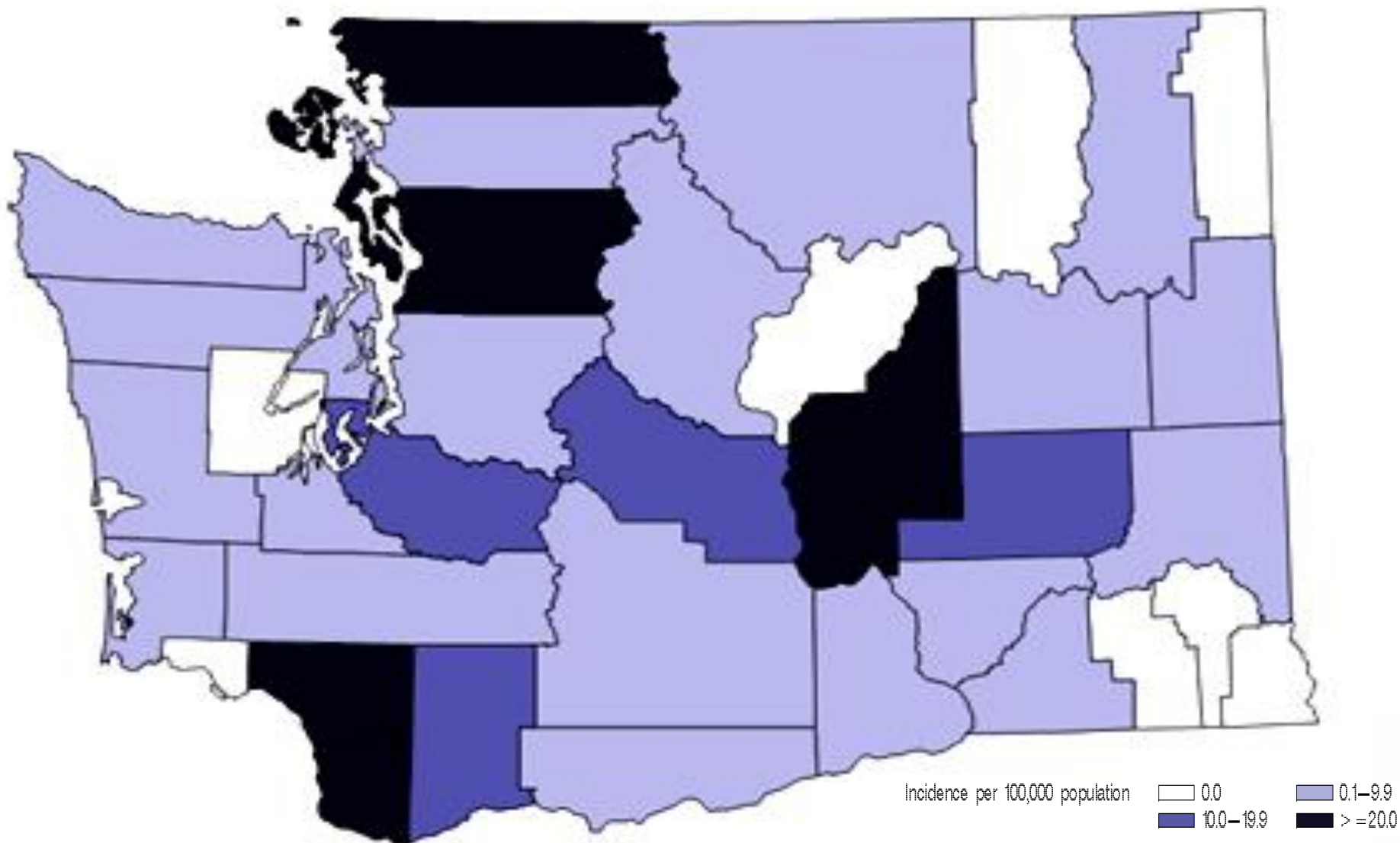


* 2012 incidence based on year to date case counts and is not an annual rate.

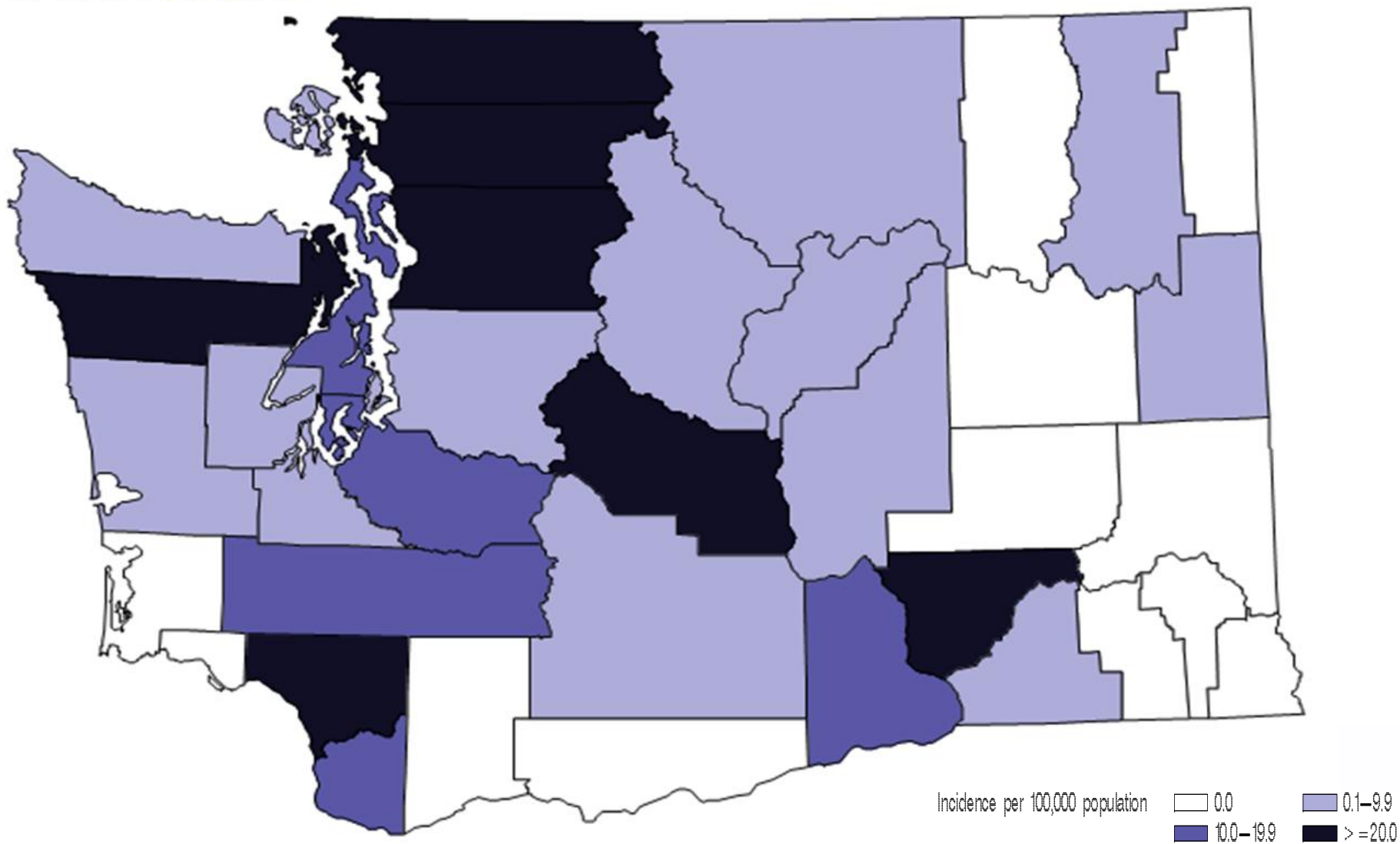
Pertussis Cases by Age Group 2012 YTD (week 43)

Age Group (years)	2010 OFM Population	Number of Cases	Rate per 100,000 Persons per Year
<1	88,544	328	370.4
1-4	355,275	592	166.6
5-9	432,656	840	194.1
10-13	346,396	964	278.3
14-18	454,703	726	159.7
19-24	577,706	164	28.4
25-44	1,830,703	455	24.9
45-64	1,823,910	275	15.1
65+	823,357	79	9.6
All ages	6,733,250	4,424	65.7

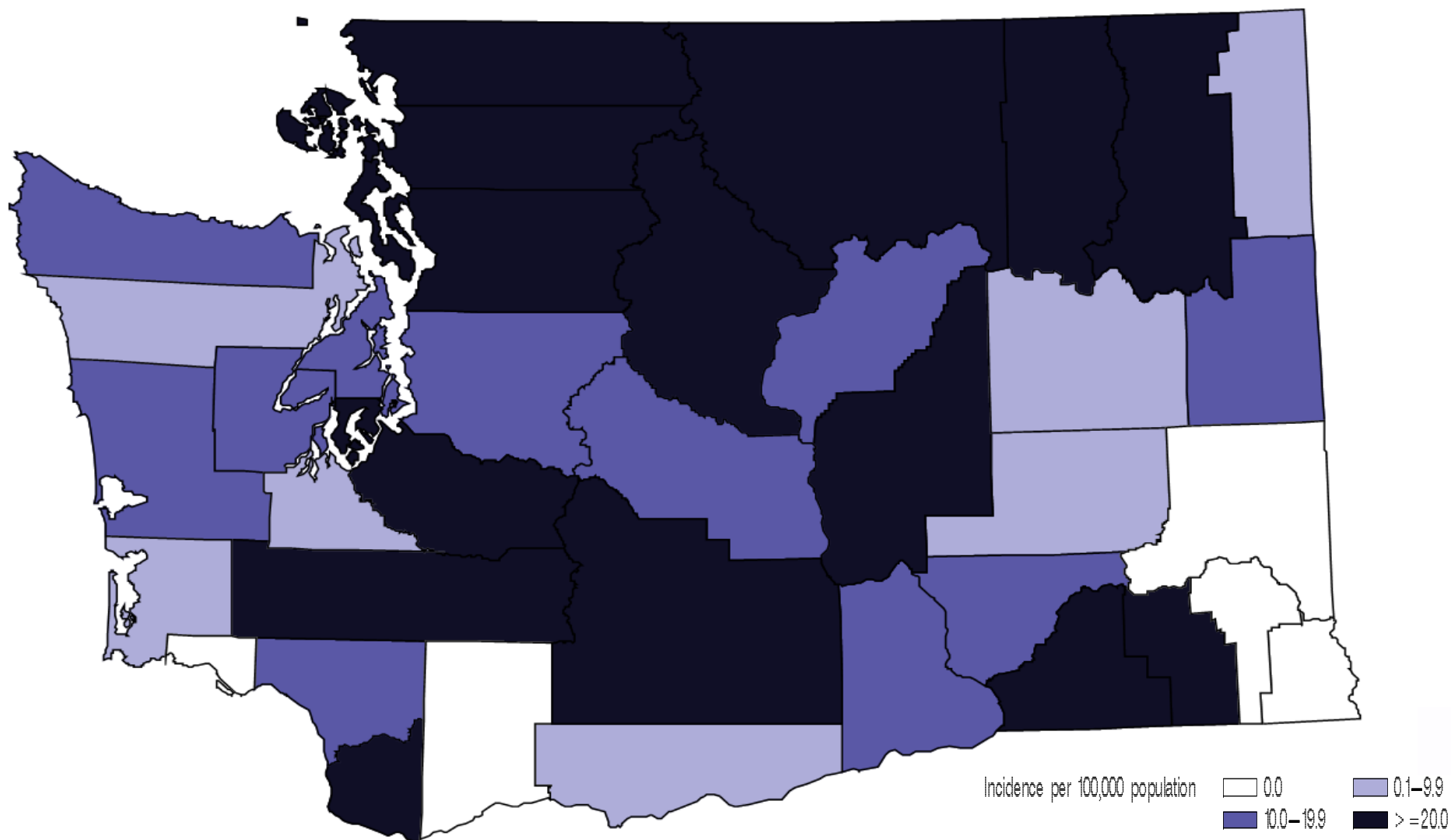
Pertussis Incidence by County – 2011 Onsets



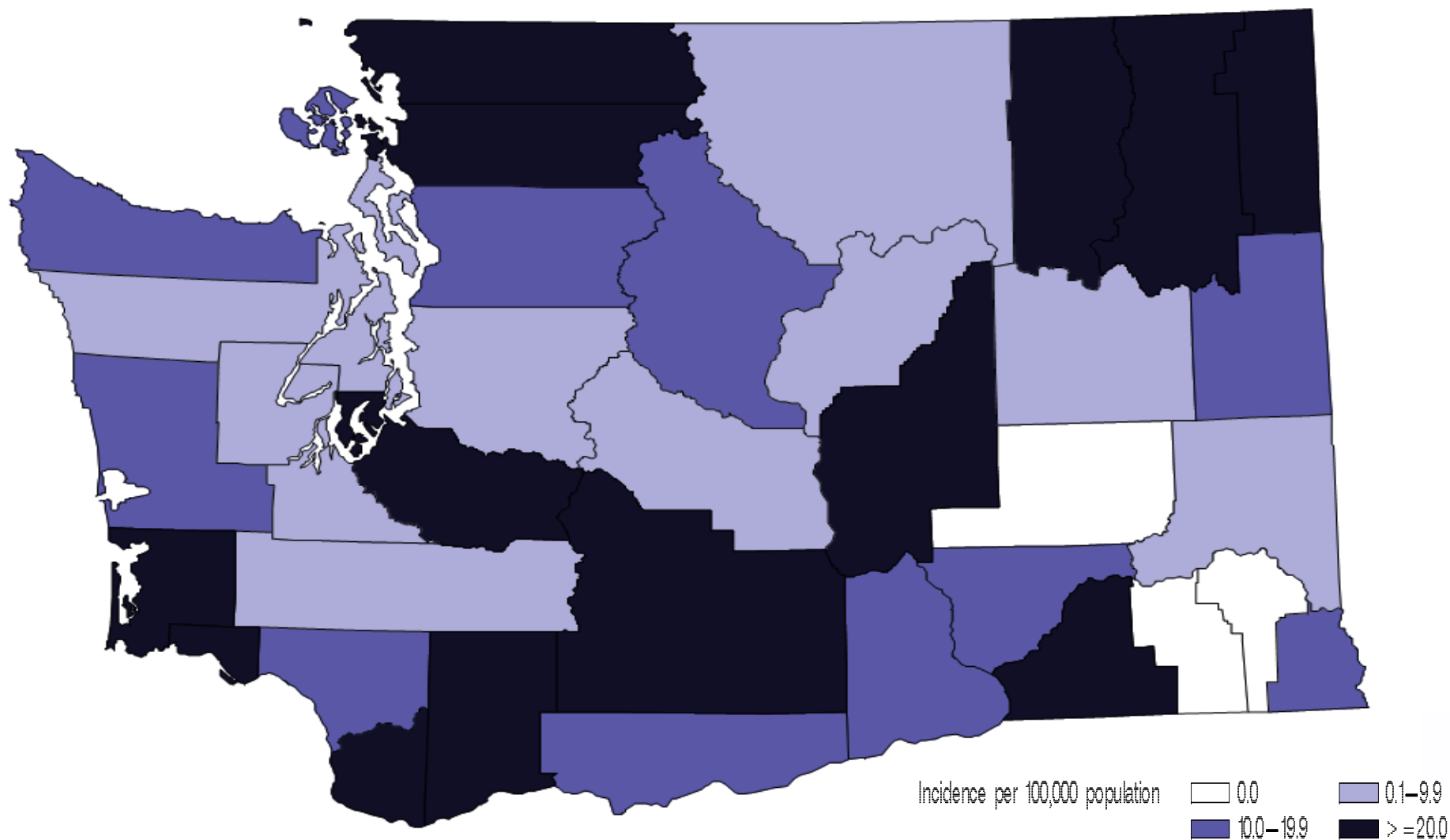
Pertussis Incidence by County 1st Quarter Onsets (January – March 2012)



Pertussis Incidence by County 2nd Quarter Onsets (April – June 2012)



Recent Pertussis Incidence by County 3rd Quarter Onsets (July – September 2012)

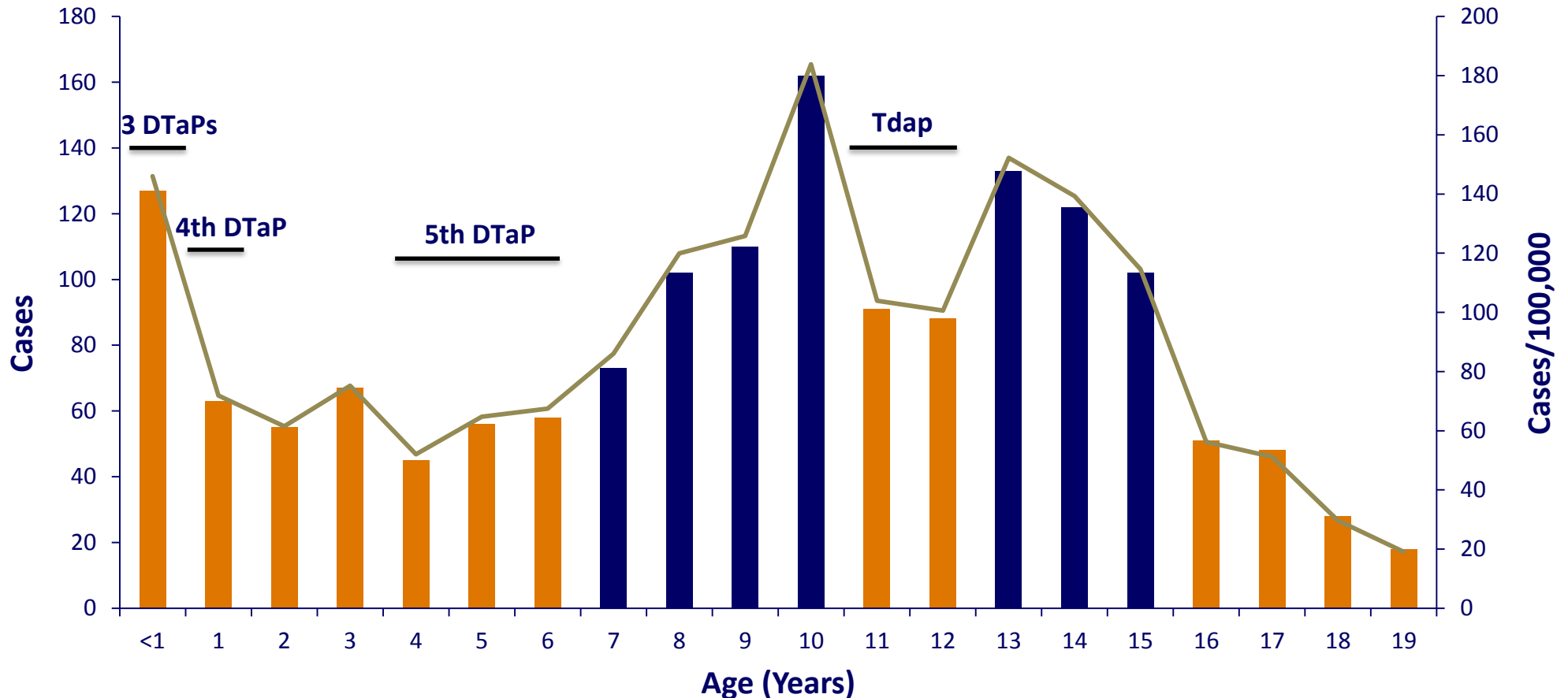


Vaccination Status of Pertussis Cases 2012 YTD (through week 43)

Age Group	Total Number of Cases	Cases with Valid Vaccination History		Up-to-date (UTD)*	
		n	%	n	%
UTD for age per ACIP					
3m-10 y	1907	1759	92%	1245	71%
11-12 y	371	349	94%	277	79%
Receipt of Tdap					
13-14 y	536	505	89%	399	79%
15-18 y	463	416	83%	299	72%

Note: Vaccination information in surveillance case reports is “self-reported” by patient or family member.

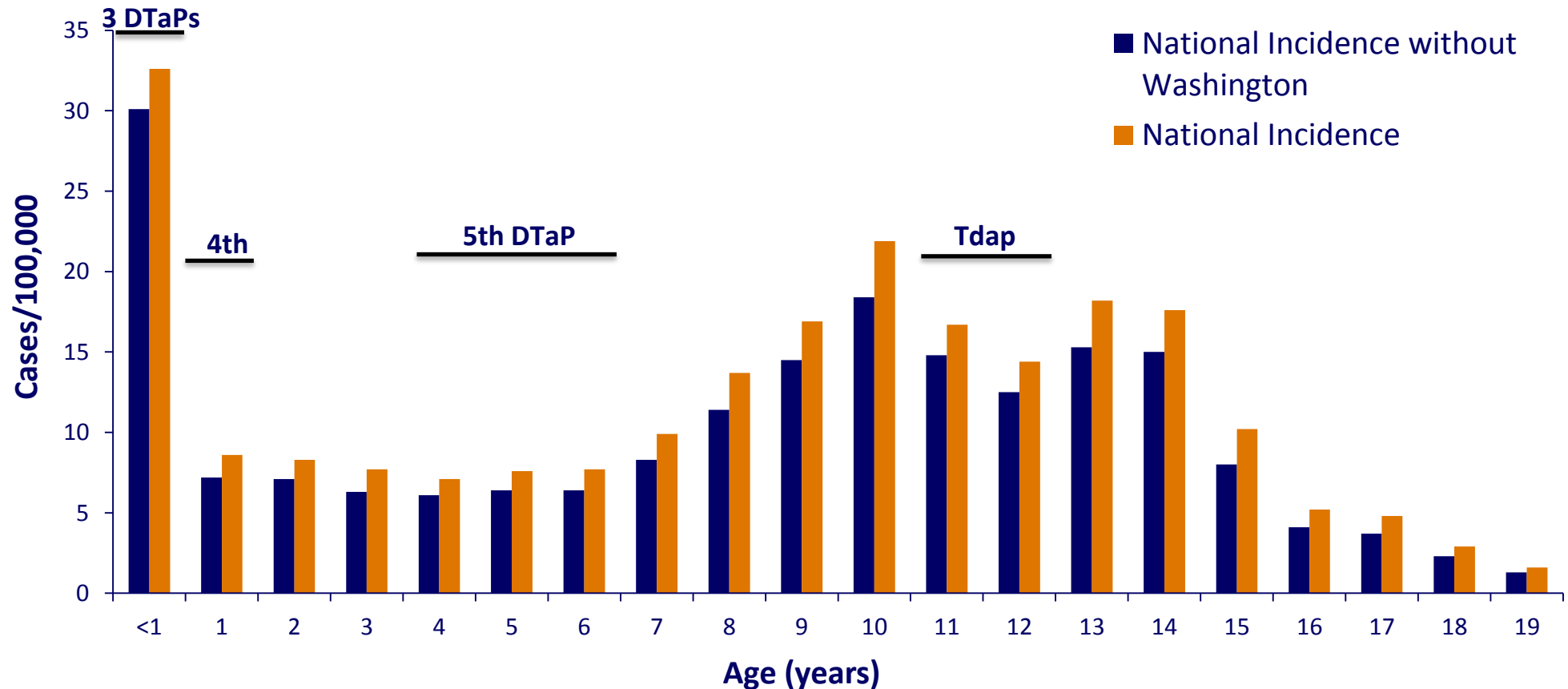
2012 Pertussis Cases and Rates by Age (January 1 – June 16)



Vaccine Type Received*	Acellular Only	Whole Cell and Acellular
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Transition Period

2012 United States Pertussis Cases by Age (January 1 – June 16)



Vaccine Type Received*	Acellular Only		Transition Period	Whole Cell and Acellular
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Tdap Vaccine Effectiveness (VE) and Duration of Protection Project – Objectives

- Assess the effectiveness and duration of protection of Tdap vaccination in Washington State adolescents 11-18 years of age.
- Evaluate impacts of whole cell or acellular pertussis vaccination during childhood on Tdap vaccine effectiveness for these adolescents.

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